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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In re Applicant:**

BEN-JACOB Eshel et al

Serial No.: 10/534,127

Filed: November 18, 2005

For: SYSTEM FOR AND METHOD OF POSITIONING  
CELLS AND DETERMINING CELLULAR  
ACTIVITY THEREOF

Examiner: COHEN, LEE S

Group Art Unit: 3739

Attorney  
Docket: 29752

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450



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Sir:

Enclosed is a PTO Form 1449 which lists citations which may be material to the patentability and examination of the above identified application. Also enclosed are copies of the references cited. These are submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. The Examiner is requested to make these citations of official record in this application.

This Information Disclosure Statement under 37 CFR 1.56 is not to be construed as a representation that a search has been made, that additional matter which is material to the examination of this application does not exist, or that any or more of these citations constitutes prior art.

Respectfully submitted,

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Martin D. Moynihan  
Registration No. 40.338

Dated: July 26, 2006

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Receipt date: 08/02/2006



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**Complete if Known**

Application Number	10/534,127
Filing Date	November 18, 2005
First Named Inventor	BEN-JACOB Eshel et al
Art Unit	3739
Examiner Name	COHEN, LEE S
Attorney Docket Number	29752

Sheet 1 of 1

U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

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<b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	
	1	Canepari et al. "Experimental Analysis of Neural Dynamics in Cultured Cortical Networks and Transitions Between Different Patterns of Activity", <i>Biological Cybernetics</i> , 77: 153-162, 1997.	
	2	Hamill et al. "Improved Patch-Clamp Techniques for High-Resolution Current Recording From Cells and Cell-Free Membrane Patches", <i>Pflugers Archives</i> , 391(2): 85-100, 1981. <i>Abstract</i> .	
	3	Huang et al. "Growth of Highly Oriented Carbon Nanotubes by Plasma-Enhanced Hot Filament Chemical Vapor Deposition", <i>Applied Physics Letters</i> , 73(26): 3845-3847, 1998.	
	4	Maiti et al. "Measuring Serotonin Distribution in Live Cells With Three-Photon Excitation", <i>Science</i> , 275: 530-532, 1997.	
	5	Ren et al. "Growth of A Single Freestanding Multiwall Carbon Nanotube on Each Nanonickel Dot", <i>Applied Physics Letters</i> , 75(8): 1086-1088, 1999.	
	6	Ren et al. "Synthesis of Large Arrays of Well-Aligned Carbon Nanotubes on Glass", <i>Science</i> , 282: 1105-1107, 1998.	
	7	Wheeler et al. "Multi-Neuron Patterning and Recording", <i>Enabling Technologies for Cultured Neuronal Networks</i> , Academic Press, 20 P. 1994.	
	8	Egert et al. "A Novel Organotypic Long-Term Culture of the Rat Hippocampus on Substrate-Integrated Multielectrode Arrays", <i>Brain Research Protocols</i> , 2: 229-242, 1998.	
	9	Heuschkel et al. "Buried Microchannels in Photopolymer for Delivering of Solutions to Neurons in A Network", <i>Sensors and Actuators B</i> , 48: 356-361, 1998.	
	10	Jimbo et al. "Simultaneous Measurement of Intracellular Calcium and Electrical Activity From Patterned Neural Networks in Culture", <i>IEEE Transactions on Biomedical Engineering</i> , 40(8): 804-810, 1993.	
	11	Markram et al. "Redistribution of Synaptic Efficacy Between Neocortical Pyramidal Neurons", <i>Nature</i> , 382: 807-810, 1996.	
	12	Ren et al. "Large Arrays of Well-Aligned Carbon Nanotubes", <i>Proceedings of 13th International Winter School on Electronic Properties of Novel Materials</i> , Kirchberg/Tirol, AT, P.263-267, Feb.27 - Mar.6, 1999.	
	13	Segev et al. "Long Term Behavior of Lithographically Prepared In Vitro Neuronal Networks", <i>Physical Review Letters</i> , 88(11): 118102-1 - 118102-4, 2002.	
Signature	Lee Cohen/		Considered
			11/26/2008

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